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DATE MAILED: 04/17/2008

NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 04/17/2008

COOK, ALEX, McFARRON, MANZO, CUMMINGS & MEHLER, LTD. SUITE 2850 200 WEST ADAMS STREET CHICAGO. II. 60606

EXAMINER		
DHARIA, PRABODH M		
ART UNIT	PAPER NUMBER	
2629	•	

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/633,964	08/04/2003	Kazutaka Inukai	0553-0376	5167	
TITLE OF INVENTION: DEVICE AND DRIVING METHOD THEREOF					

APPLN. TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE

nosprovisional NO \$1440 \$0 \$1440 \$1440 \$0.7717/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTEXDED. SEE 38 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notifical	ed below or directed oth	ng the Patent, advance on herwise in Block 1, by (a	rders and notification of a) specifying a new cor	f maintenance fees v respondence address	will be ; and/or	mailed to the current (b) indicating a sepa	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) 7590 0441772908				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, mus have its own certificate of mailing or transmission.			
CUMMINGS & SUITE 2850	, McFARRON, M MEHLER, LTD.		I S a u	Cei hereby certify that the tates Postal Service of ddressed to the Mai ansmitted to the USF	rtificate nis Fee(with sul I Stop TO (57	of Mailing or Transa s) Transmittal is being ficient postage for firs ISSUE FEE address I) 273-2885, on the da	nission deposited with the United t class mail in an envelope above, or being facsimile ate indicated below.
200 WEST ADA CHICAGO, IL 6			ļ				(Depositor's name)
							(Signature)
			L				(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/633,964 TITLE OF INVENTION	08/04/2003 : DEVICE AND DRIVE	NG METHOD THEREO	Kazutaka Inukai F			0553-0376	5167
APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DU	E PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$0	\$1440		\$1440	07/17/2008
EXAM	INER	ART UNIT	CLASS-SUBCLASS	7			
DHARIA, PI		2629	345-076000	_			
I. Change of correspondence address or indication of "Fee Address" (37 CFR 1.853). Change of correspondence address for Change of Correspondence Address from PIOSB/123 jautached. The Address from PIOSB/123 jautached. The Address' indication for "Fee Address" Indication from PIFOSB/147 jautached. Use of a Customer Number is required. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON			2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm fluxing as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agent). If no name is listed, no name will be printed.				
PLEASE NOTE: Uni recordation as set forti (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified below, no assignee pletion of this form is NO	data will appear on the T a substitute for filing (B) RESIDENCE: (CI	e patent. If an assign an assignment. TY and STATE OR 0	COUNT	RY)	ocument has been filed for
4a. The following fee(s): Issue Fee Publication Fee (N	o small entity discount p		b. Payment of Fee(s): (F A check is enclose Payment by credit The Director is her overpayment, to De	d. card. Form PTO-203	3 is atta	ched. required fee(s), any de	
	s SMALL ENTITY state	as. See 37 CFR 1.27.	☐ b. Applicant is no				
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte ites Patent and Trademark	d from anyone other that Office.	n the applicant; a reg	istered :	attorney or agent; or th	e assignee or other party in
Authorized Signature				Date			
Typed or printed name				Registration !			
This collection of inform an application. Confident submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this but firginia 22313-1450. DC 13-1450.	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the ONOT SEND FEES OR	on is required to obtain 1.14. This collection is depending upon the in e Chief Information Of COMPLETED FORMS	or retain a benefit by estimated to take 12 dividual case. Any co ficer, U.S. Patent and TO THIS ADDRES	the pub minuter omment Trader S. SEN	tic which is to file (and to complete, includin s on the amount of tir nark Office, U.S. Depa D TO: Commissioner I	by the USPTO to process) g gathering, preparing, and ne you require to complete utment of Commerce, P.O. for Patents, P.O. Box 1450,

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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



CHICAGO, IL 60606

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

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10/633,964	08/04/2003	Kazutaka Inukai	0553-0376 5167	
7:	90 04/17/2008	EXAMINER		
COOK, ALEX, McFARRON, MANZO,		DHARIA, P.	ABODH M	
CUMMINGS & MEHLER, LTD.		ART UNIT	PAPER NUMBER	
SUITE 2850 200 WEST ADAMS STREET		2629 DATE MAII ED: 04/17/200	18	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 10 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 10 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	
10/633,964	INUKAI, KAZUTAKA	
Examiner	Art Unit	
DRABODUM DUADIA	2620	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- 1. This communication is responsive to 02-19-2008.
- 2. The allowed claim(s) is/are 2-40.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☑ All b) ☐ Some* c) ☐ None of the:
 - 1. A Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _____
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) Thereto or 2) to Paper No./Mail Date
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2.
 Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 02-14-2008
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. ☐ Other .

/Prabodh M Dharia/ Primary Examiner, Art Unit 2629 Application/Control Number: 10/633,964 Page 2

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Status: Please all the replies and correspondence should be addressed to Examiner's
new art unit 2629. Receipt is acknowledged of papers submitted on 02-14-2008 under IDS with
RCE after the notice of allowance mailed on 09-21-2007 which, have been placed of record in
the file. Claims 2-40, are pending in this office action. Claims 1 is cancelled.

2. Applicant's petition to withdraw from issue to consider newly filed IDS with RCE has been reviewed by USPTO legal petition department and petition has been approved and granted on 02-19-2008. The prosecution of the application number 10633964 has been reopened. Claims 2-40 are pending in this action. Claim 1 is cancelled.

Information Disclosure Statement

- 3. The information disclosure statement (IDS) submitted with RCE on 02-14-2008 was filed after the mailing date of the notice of allowance on 09-21-2007. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.
- 4. Applicant has filed the information disclosure statement (IDS) on 02-14-2008 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner. However, after further search and consideration the prior arts cited on the PTO 1449 fails to recite or disclose allowable limitations recited below; which puts application number 10633964 in condition for allowance.

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Art Unit: 2629

Allowable Subject Matter

Claims 2-40 are allowed.

The following is an examiner's statement of reasons for allowance:

Applicant has filed the information disclosure statement (IDS) on 02-14-2008 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner. However, after further search and consideration the prior arts cited on the PTO 1449 fails to recite or disclose the uniquely distinct features represented by underlined bold claim below;

Independent claim 2 identifies a uniquely distinct feature "wherein at least four data lines extend in each one of the pixel columns, and wherein the at least four data lines are connected to different data drivers". Independent claim 3 identifies a uniquely distinct feature "a first pixel and a second pixel arranged in the same column direction in the pixel portion, wherein each of the first pixel and the second pixel comprises a switching transistor and a light emitting element; a first data line electrically connected to the switching transistor of the first pixel; and a second data line electrically connected to the switching transistor of the second pixel'.

Independent claim 4 identifies a uniquely distinct feature "wherein at least one scanning driver is provided to select at least two scanning lines out of the plurality of scanning lines simultaneously, and wherein at least two data drivers are provided to simultaneously supply signals to at least two pixels selected out of the plurality of pixels through the at least two data lines extending in each one of the pixel columns".

Independent claim 5 identifies a uniquely distinct feature "wherein at least one scanning driver is provided to select at least two scanning lines out of the plurality of scanning lines simultaneously, and wherein at least two data drivers are provided to simultaneously supply signals to at least two pixels selected out of the plurality of pixels through the at least two data lines extending in each one pixel column".

Independent claim 19 identifies a uniquely distinct feature "in the writing period, selecting two scanning lines simultaneously by at least one scanning driver, and simultaneously supplying signals by the at least two data drivers to at least two pixels selected out of the plurality of pixels through the at least two data lines extending in each one of the pixel columns".

Independent claim 20 identifies a uniquely distinct feature "in the writing period, selecting two scanning lines simultaneously by at least one scanning driver, and simultaneously supplying signals by the at least two data drivers to at least two pixels selected out of the plurality of pixels through the at least two data lines extending in each one of the pixel columns".

Independent claim 21 identifies a uniquely distinct feature "wherein a first data line of the plurality of data lines is electrically connected to the first switching transistor; wherein a second data line of the plurality of data lines is electrically connected to the second switching transistor; wherein a first scanning line of the plurality of scanning lines is electrically connected to the first switching transistor; wherein a second scanning line of the plurality of scanning lines is electrically connected to the second switching transistor; and wherein each of the plurality of pixels, the first pixel and the second pixel comprises the a tight-emitting element".

Independent claim 23 identifies a uniquely distinct feature "a first data driver for supplying a video signal to the pixels which are arranged in first to m/2-th rows and in oddApplication/Control Number: 10/633,964

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numbered rows; a second data driver for supplying a video signal to the pixels which are arranged in first to m/2-th rows and in even-numbered rows; a third data driver for supplying a video signal to the pixels which are arranged in (m/2+1)-th to m-th rows and in odd-numbered rows; a fourth data driver for supplying a video signal to the pixels which are arranged in (m/2+1)-th to m-th rows and in even-numbered rows; a first scanning driver for controlling the scanning lines extending in the first to m/2-th rows; a second scanning driver for controlling the scanning lines extending in the (m/2+1)-th to m-th rows; and at least two data lines of the plurality of data lines extending in each one pixel column".

Independent claim 24 identifies a uniquely distinct feature "a first data driver for supplying a video signal to the pixels arranged in a m-th row; a second driver for supplying a video signal to the pixels arranged in a (m+l)-th row; a third data driver for supplying a video signal to the pixels arranged in a (m+2)-th row; a fourth data driver for supplying a video signal to the pixels arranged in a (m+3)-th row; a first scanning driver for controlling the scanning line extending in the m-th row; a second scanning driver for controlling the scanning line extending in the (m+1)-th row; a third scanning driver for controlling the scanning line. extending in the (m+2)-th row; and a fourth scanning driver for controlling the scanning line extending in the (m+3)-th row".

Independent claim 25 identifies a uniquely distinct feature "a first data driver for supplying a video signal to the pixels which are arranged in first to Ird4-th rows through the data lines; a second data driver for supplying a video signal to the pixels which are arranged in (m/4+t)-th rows to m/2-th row through the data lines; a third data driver for supplying a video signal to the pixels which are arranged in (m/2+t)-th row to 3xnd4-th rows through the data lines;

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a fourth data driver for supplying a video signal to the pixels which are arranged in (3xird4+1)-th row to m-th rows through the data lines; a first scanning driver for controlling the scanning lines extending in the first to m/4-th rows; a second scanning driver for controlling the scanning lines extending in the (m/4+1)-th row to m/2-th rows; a third scanning driver for controlling the scanning lines extending in the (m/2+1)-th row to 3xm/4-th row; a fourth scanning driver for controlling the scanning lines extending in the (3 x m/4+1)-th row to m-th row; and at least two data lines of the plurality of data lines extending in each column pixel.

Independent claim 36 identifies a uniquely distinct feature "wherein at least two data lines of the plurality of date lines are arranged in a first pixel column, and the at least two data lines electrically connected to different pixels which are arranged in the first pixel column and wherein at least two data lines of the plurality of date lines are arranged in a second pixel column, and the at least two data lines electrically connected to different pixels which are arranged in the second pixel column".

Independent claim 37 identifies a uniquely distinct feature "wherein at least four data lines of the plurality of date lines are arranged in a first pixel column, and the at least four data lines electrically connected to different pixels which are arranged in the first pixel column and wherein at least four data lines of the plurality of date lines are arranged in a second pixel column, and the at least four data lines electrically connected to different pixels which are arranged in the second pixel column".

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue Application/Control Number: 10/633,964 Page 7

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Conclusion

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Prabodh M Dharia whose telephone number is 571-272-7668.

The examiner can normally be reached on M-F 8AM to 5PM.

8. The fax phone number for the organization where this application or proceeding is

assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

Application/Control Number: 10/633,964

Art Unit: 2629

/Prabodh M Dharia/

Prabodh Dharia

Page 8

Primary Examiner

Art Unit 2629

04-05-2008